

### REMARKS

Claims 1 and 8 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kramer (U.S. Pat. No. 5297057). Claims 2-7 and 9-13 are objected to as being dependant upon a rejected claim. Claims 14-26 have been allowed. Claims 1, 3 and 7 have been amended. No new matter has been added. It is respectfully submitted that claims 1-13 are allowable over the art of record for the reasons set forth below.

Kramer discloses a method and apparatus for performing kinematic analyses. (Kramer at col. 4, ll. 39-40). A topological description of a linkage is input into the system along with a set of forces to be applied to the linkage (*Id.* at col. 4, ll. 46-50). This description consists of parameters such as angles and positions (*Id.* at col. 65, ll. 34-40). The system then generates a graph consisting of all the possible states or sets of states that the linkage can progress. (*Id.* at col. 4, ll. 53-55).

The present application claims a system and method for the graphical synthesis of mechanisms. Claim 1 reads in part :

A system for the graphical synthesis of mechanisms comprising:

...

a computing application residing in said computer memory and running on said computer processor, wherein said computing application receives operator input representative of constructs, said input indicative of desired functional requirements, from said operator input interface, and processes said operator input to extract position and angle data from said construct data for use to calculate mechanism solutions having the particular desired functional requirements said mechanism capable of behaving in accordance with said inputted functional requirements, said computing application further calculating parameters associated with said calculated mechanism for display as graphical information on said display device for said operator to view.

As recited in amended claim 1, a computer application receives operator input representative of constructs and indicative of desired functional requirements. The position and angle data are extracted from the construct data. Using the extracted position and angle data, mechanism solutions capable of behaving in accordance with the functional requirements are calculated. A graphical representation of the mechanism solutions is displayed to the operator.

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Kramer does not teach receiving operator input representative of constructs and indicative of desired functional requirements, extracting angle and position data from the received constructs, and calculating mechanism solutions capable of behaving in accordance with the functional requirements. Nowhere in Kramer is there any mention of a construct, let alone extracting angle and position data from construct data. It is therefore requested that the Examiner withdraw the 35 U.S.C. § 103(a) rejection and allow claim 1.

With respect to dependant claims 2-13, Applicant respectfully submits that the claims are now allowable for the reason stated above and that the Examiner's objections should be withdrawn.

### **CONCLUSION**

Applicant respectfully requests reconsideration of the claims and early issuance of a Notice of Allowance.

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